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constant layer leaning angle, where the liquid-crystal layer comprises at least one compound of the formula (I) below.

Expressly included is the advantageous use of the novel materials and mixtures for active-matrix displays, antiferroelectric displays and twisted smectic displays.

In particular, the object is achieved by a chiral smectic active-matrix display containing a liquid-crystal layer in the form of a monostable monodomain having a tilt angle which is virtually constant over a broad temperature range, and a virtually constant layer leaning angle, where the liquid-crystal layer comprises at least one compound of the formula (I) below.

The active-matrix display contains a chiral smectic liquid-crystal mixture comprising at least one compound of the general formula (I)

$$R^{1}-(A^{1}-M^{1})_{a}-(A^{2}-M^{2})_{b}-A^{3}-X-B^{1}-(B^{2})_{c}-R^{2}$$
 (I)

where the symbols are as defined below:

 $\mbox{\ensuremath{R}}^{1}, \ \mbox{\ensuremath{R}}^{2}$ are, independently of one another, identical or different and are each

- a) hydrogen, fluorine or CN
 a straight-chain or branched alkenyl, alkenyloxy, alkyl or alkyloxy
 radical (with or without asymmetric carbon atoms) having 2 to 16
 carbon atoms, where
 - one or two nonterminal -CH₂- groups may be replaced by -O-, -OC(=O)-, -(C=O), -C(=O)O-, -Si(CH₃)₂-, -CH(Cl)- and/or one or two -CH₂- groups may be replaced by -CH=CH- or -C≡C-
- 30 and one or more H atoms may be replaced by F and/or
 - b2) one or more -CH₂- groups may be replaced by phenylene-1,4-diyl (unsubstituted, monosubstituted or disubstituted by F), phenylene-1,3-diyl (unsubstituted, monosubstituted or disubstituted by F), cyclohexane-1,4-diyl (unsubstituted or monosubstituted by F or CN) or cyclopropane-1,2-diyl

and one or more H atoms may be replaced by F with the provisos that only one of the radicals R^1 , R^2 can be hydrogen, F or CN and that two adjacent -CH₂- groups cannot be replaced by -O-

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 M^1 , M^2 are, independently of one another, identical or different and are each -C(=O)O-, -OC(=O)-, $-CH_2O$ -, $-OCH_2$ -, $-CF_2O$ -, $-OCF_2$ -, $-CH_2CH_2$ -, $-CF_2CF_2$ -, $-CH_2CH_2$ -, $-CH_2$ -, $-CH_$

 ${\text{A}}^{1}.~{\text{A}}^{2}.~{\text{A}}^{3}$ are, independently of one another, identical or different and are each cyclohexane-1,4-diyl (unsubstituted or monosubstituted by F. CH₃, cyclohex-1-ene-1,4-diyl, CN), cyclohex-2-ene-1,4-diyl, 10 2-oxocyclohexane-1,4-diyl, 2-cyclohexen-1-one-3,6-diyl, 1-silacyclohexane-1,4-diyl, bicyclo[2.2.2]octane-1,4-diyl, spiro[4.5]decane-2,8-diyl, spiro[5.5]undecane-3,9-diyl, phenylene-1,4-diyl (unsubstituted, monosubstituted or disubstituted by CN, CH3, CF3, OCH₃, unsubstituted, monosubstituted, disubstituted, trisubstituted or tetrasubstituted by F), phenylene-1,3-diyl (unsubstituted, mono-15 substituted or disubstituted by CN, CH3, CF3, OCF3, unsubstituted, monosubstituted, disubstituted, trisubstituted or tetrasubstituted by F), thiophene-2,5-diyl, thiophene-2,4-diyl, (1,3,4)-oxadiazole-2,5-diyl, (1,3,4)-thiadiazole-2,5-diyl, 1,3-thiazole-2,5-diyl, 1,3-thiazole-2,4-diyl, 20 (1,3)-oxazole-2,5-diyl, isoxazole-2,5-diyl, indane-2,6-diyl, naphthalene-2,6-diyl (unsubstituted, monosubstituted disubstituted by F or CN), 1,2,3,4-tetrahydronaphthalene-2,6-diyl, decaline-2,6-diyl, pyrimidine-2,5-divl (unsubstituted or monosubstituted by F), pyridine-2,5-diyl (unsubstituted, 25 monosubstituted disubstituted or by F), pyrazine-2,5-divl (unsubstituted or monosubstituted by F), pyridazine-3,6-diyl, quinoline-2,6-diyl, quinoline-3,7-divl. isoquinoline-3,7-diyl, quinazoline-2.6-divl. 5,6,7,8-tetrahydroquinazoline-2,6-diyl, quinoxaline-2,6-diyl, 1,3-dioxane-2,5-diyl (unsubstituted or mono-30 substituted by CN), benzothiazole-2,6-diyl, piperidine-2,4-diyl, piperazine-1,4-divl

B¹ is cyclohexane-1,4-diyl (unsubstituted, monosubstituted or disubstituted by F, CH₃, CN), perfluorocyclohexane-1,4-diyl, cyclohex-1-ene-1,4-diyl, cyclohex-2-ene-1,4-diyl, 1-alkyl-1-silacyclohexane-1,4-diyl, bicyclo[2.2.2]octane-1,4-diyl, cyclopentane-1,3-diyl, cycloheptane-1,4-diyl, tetrahydrofuran-2,5-diyl, tetrahydrofuran-2,4-diyl, phenylene-1,4-diyl (unsubstituted, monosubstituted or

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 B^2

disubstituted by CN, CH₃, CF₃, OCF₃, unsubstituted, monosubstituted, disubstituted, trisubstituted or tetrasubstituted by F), phenylene-1,3-diyl (unsubstituted, monosubstituted or disubstituted by CN, CH₃, CF₃, OCF₃, unsubstituted, monosubstituted, disubstituted or trisubstituted by F), thiophene-2,5-diyl (unsubstituted or monosubstituted by F), thiophene-2,4-diyl (unsubstituted or monosubstituted by F), 1,3-thiazol-2,5-diyl (unsubstituted or monosubstituted by F), 1,3-thiazol-2,4-diyl (unsubstituted or monosubstituted by F), (1,3,4)-thiadiazol-2,5-diyl, 1,3-dioxane-2,5-diyl (unsubstituted or monosubstituted by CN), tetrahydropyran-2,5-diyl, 6,6-difluorotetra-hydropyran-2,5-diyl, 6,6-difluoro-2,3-dihydro-6Hpyran-2,5-diyl, 6-fluoro-3,4-dihydro-2H-pyran-2,5-diyl, piperidine-1,4-diyl, piperazine-1,4-diyl, pyrimidine-2,5-diyl (unsubstituted or monosubstituted by F), pyridine-2,5-diyl (unsubstituted or monosubstituted by F), 1,2,3,4-tetrahydronaphthalene-2,6-diyl, decaline-2,6-diyl

cyclohexane-1,4-diyl (unsubstituted, monosubstituted disubstituted by F, CH₃, CN), cyclohex-1-ene-1,4-diyl (unsubstituted monosubstituted by F). cvclohex-2-ene-1.4-divl. 1-silacyclohexane-1,4-diyl, bicyclo[2.2.2]octane-1,4-diyl, phenylene-1,4-diyl (unsubstituted, monosubstituted or disubstituted by CN. CH₃, CF₃, OCF₃, unsubstituted, monosubstituted, disubstituted, trisubstituted or tetrasubstituted by F), phenylene-1,3-diyl (unsubstituted, monosubstituted or disubstituted by CN, CH₃, CF₃, OCF₃, unsubstituted, monosubstituted, disubstituted or trisubstituted by F), thiophene-2,5-diyl, thiophene-2,4-diyl, 1,3-thiazole-2,5-diyl, 1,3-thiazole-2,4-diyl, (1,3,4)-thiadiazole-2,5-diyl, 1,3-dioxane-2,5-diyl (unsubstituted or monosubstituted by CN), tetrahydrofuran-2,5-diyl, tetrahydropyran-2,5-diyl, 6,6-difluorotetrahydropyran-2,5-diyl, 6.6-difluoro-2,3-dihydro-6H-pyran-2,5-diyl, 6-fluoro-3,4-dihydro-2Hpyran-2,5-diyl, pyrimidine-2,5-diyl (unsubstituted or monosubstituted F), pyridine-2,5-diyl (unsubstituted or monosubstituted F), indane-2,6-diyl, piperidine-1,4-diyl, piperazine-1,4-diyl, pyrimidine-2,5-diyl (unsubstituted or monosubstituted by F)

X is $-(CH_2)_{n-}$, where

a) one or two -CH₂- groups may be replaced by -O- or -C(=O)-and/or